



South Central College
Program Design

AAS 3277 Networking Services

Program Information

Instructional Level Associate Degree

Career Cluster Arts, Communications, & Information Systems

Description

This program prepares the learner with the core skills necessary for a technical support position with a focus on networking services. Training is emphasized in the areas of installing, maintaining, and troubleshooting personal computers, computer networks, and peripheral devices utilizing current industry hardware and software products. Learners also receive an orientation on IBM mid-range and mainframe computer systems that are frequently integrated into corporate networks. Hands-on labs are included in the curriculum to give learners exposure to current and upcoming technology.

Program Admission Dates (Fall and/or Spring)

Fall and Spring

Program Location (North Mankato and/or Faribault)

North Mankato

Program Student Learning Outcomes

- 1 Design and administer computer networks.
- 2 Maintain and repair personal computer systems.
- 3 Support common business application software.
- 4 Support current computer operating systems.

Program Configurations

Fall Starts

Credits

Technical Course	25
Liberal Arts & Sciences	15
Elective	20
Total Credits	60

Semester 1

Course #	Course Title	Credits	Function
COMP 1200	Hardware and Software Essentials	4	Technical Course
COMM Choice	COMM110 or COMM120 or COMM140	3	Liberal Arts & Sciences
COMP 1140	Web For Business	3	Technical Course
COMP1120	Foundations of Computing	4	Technical Course

Semester 2

Course #	Course Title	Credits	Function
COMP 1360	Introduction to Data Communications and Networking	4	Technical Course
ENGL Choice	ENGL100 or ENGL240	4	Liberal Arts & Sciences
COMP1125	Spreadsheet/Database Integration	4	Technical Course
COMP1130	Programming Fundamentals	4	Technical Course

Semester 3

Course #	Course Title	Credits	Function
	Additional LAS Course not from MnTC Goal Areas 1 or 4	4	Liberal Arts & Sciences
COMP Choice	Select a course from the following: COMP2460, COMP2462, COMP2453, COMP2145, COMP2300	4	Elective
COMP Choice	Select a course from the following: COMP2460, COMP2462, COMP2453, COMP2145, COMP2300	4	Elective
COMP Choice	Select a course from the following: COMP2460, COMP2462, COMP2453, COMP2145, COMP2300	4	Elective

Semester 4

Course #	Course Title	Credits	Function
COMP2498	Capstone - Networking Services	2	Technical Course
COMP Choice	Select a course from the following: COMP2466, COMP2475, COMP2456, COMP2452, COMP2500, COMP2150, COMP2312	4	Elective
COMP Choice	Select a course from the following: COMP2466, COMP2475, COMP2456, COMP2452, COMP2500, COMP2150, COMP2312	4	Elective
MATH Choice	MATH115 or MATH120	4	Liberal Arts & Sciences

Program Course List

Number	Title	Credits	Pre/Corequisites
COMP 1140	Web For Business	3	None
COMP 1200	Hardware and Software Essentials	4	(Skill) - Basic Windows navigation; Click, Double-click, etc. (Skill) - Internet usage such as email, internet searching, etc. (Skill) - Window Explorer, such as file organization, searches, etc.
COMP 1360	Introduction to Data Communications and Networking	4	None.
COMP 2300	Java	4	Successful completion of COMP1130 Programming Fundamentals (with a C grade or higher), or a working knowledge of another programming language. Note: Prerequisites ensure that you are at the correct learning level for the course. Please feel free to contact the instructor to help you determine your expertise level if you have not completed the prerequisite courses.
COMP 2312	Software Development	4	Successful completion of COMP 1130 Programming Fundamentals with a C or higher, or a working knowledge of at least one programming language.
COMP 2452	Information Storage and Management	4	COMP 1200 Hardware and Software Essentials
COMP 2453	Virtualization Technologies	4	COMP 1200 Hardware and Software Essentials
COMP 2456	Cloud Technologies and Services	4	COMP 1200 Hardware and Software Essentials
COMP 2460	Linux Administration	4	COMP 1200 COMP 1360
COMP 2462	Microsoft Administration	4	COMP 1360
COMP 2466	Routing & Switching	4	COMP 1360
COMP 2475	Security Basics	4	COMP 1360
COMP 2498	Capstone - Networking Services		
ENGL 240	Technical Communication	4	ENGL 100 or a score of 104 or higher on the sentence skills portion of the Accuplacer test.
MATH 115	Concepts in Mathematics	4	MATH 0085 with a grade of C or higher, or a score of 76 or higher on the Elementary Algebra portion of the

			Accuplacer test.
MATH 120	College Algebra	4	Completion of MATH 0085 with a grade of C or higher, or an Accuplacer test score of 56 in Elementary Algebra and a score of 50 in College Level Mathematics. MNTC 4: Mathematical/Logical Reasoning